UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

January 1962

Part II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

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* Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

ADDITION OF TROPICAL ANOMALY CHART TO SERIES OF TEMPERATURE CHARTS

Commencing this month, the series of sea temperature charts contained in this publication will include a sea temperature anomaly chart for the eastern tropical Pacific based on a twelve-year (1947-1958) mean.

The twelve-year mean was compiled from sea temperature data provided by the Laboratory Director, Bureau of Commercial Fisheries Biological Laboratory, Stanford, California. Scientists at that laboratory have obtained historical records of sea temperatures and marine meteorological observations from the National Weather Records Center, Ashville, North Carolina to assist them in their oceanographic studies of the Pacific Ocean.

Because of the paucity of observations for the region south of the equator, readers are advised to view anomalies from that area with caution.

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN JANUARY 1962

Acknowledgments

The following organizations and stations contributed data for the January 1962 charts:

U.S. Weather Bureau, San Diego, California
U.S. Weather Bureau Ship Visitation Office, Long Beach, California
U.S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U.S. Navy Branch Hydrographic Office, Honolulu, Hawaii; Seattle, Washington; San Francisco and Wilmington, California
U.S. Coast Guard, Port Hueneme Light Station, Port Hueneme, California
U.S. Bureau of Commercial Fisheries, Biological Laboratories, Honolulu, Hawaii; La Jolla, California; Seattle, Washington

U.S. Bureau of Commercial Fisheries, Exploratory Fishing and Gear Research Base, Seattle, Washington

Guadalupe Island and Ensenada by Pedro Mercado of the Universidad Autonoma de Baja California, Ensenada, Mexico

Hopkins Marine Station, Pacific Grove, California by J. P. Balesteri

Humboldt State College by George Allen

Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico; David Ortega at Manzanillo, Mexico; Romeo Valencia at Pt. San Jose, Guatemala; R. E. Pino at Pt. Armuelles, Panama; V. E. Castillo at Tumaco, Colombia; Gualberto Tapia at San Cristobal, Galapagos; Rodrigo Gomez at La Libertad, Ecuador; A. Campos at Talara, Peru; R. Celis at San Juan, Peru

Inter-American Tropical Tuna Commission, La Jolla and Terminal Island, California; Piura, Peru

Kelco Company, San Diego, California

Oregon State College by Bruce Wyatt

Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by R. W. Collins at Quatsino Lightstation; J. M. Allen at Cape St. James Light; B. Stuart at Amphitrite Point Light; J. M. Hartt at Langara Island Light

Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein

Ship Santa Maria

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weather-ship stations. Numerals on shore are temperatures at coastal and light stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term mean charts of H.O. 225. Hatched areas are colder than mean.

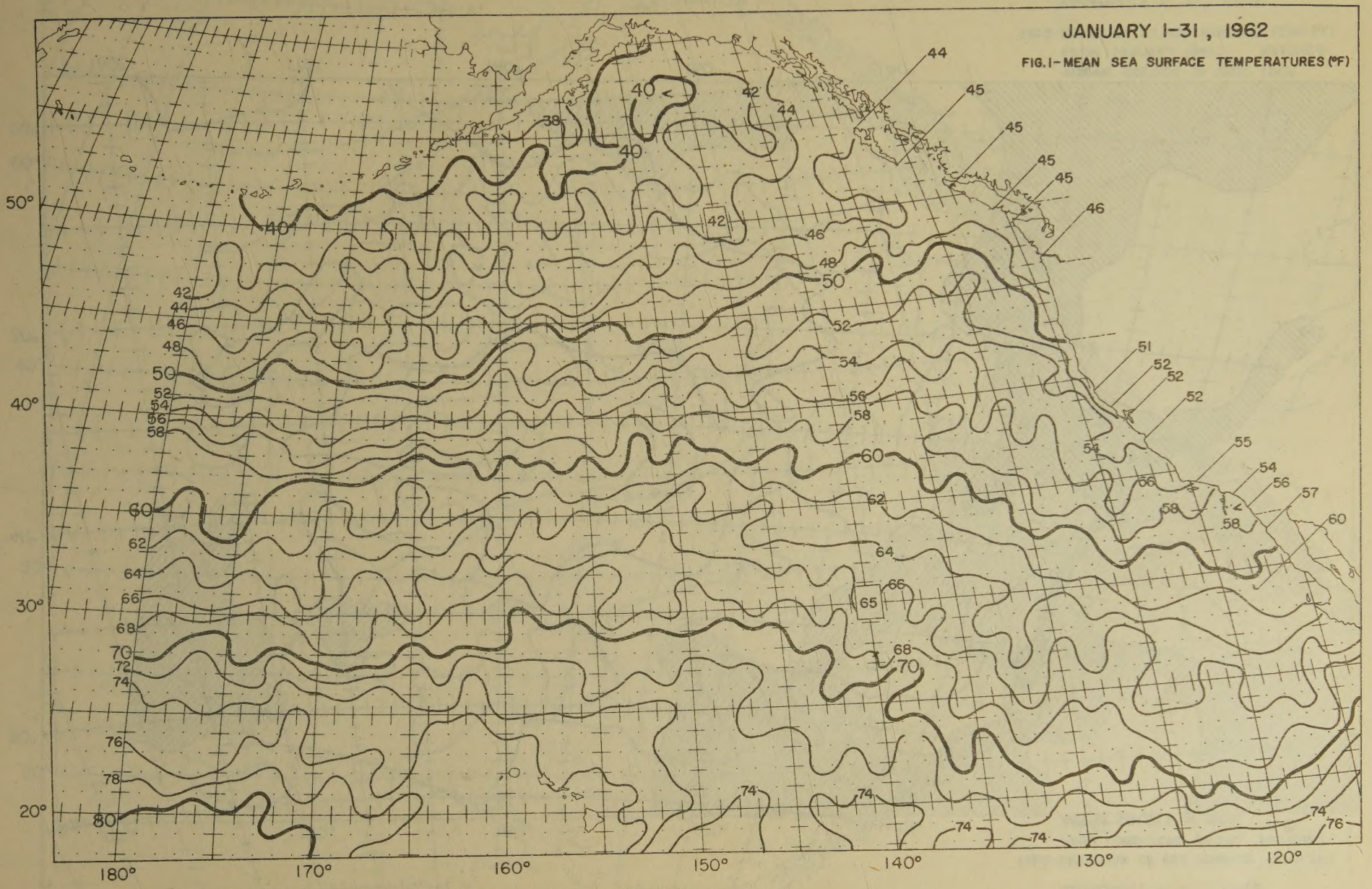
Figure 3.--Deviation of sea surface temperatures (°F) from those of January 1961. Hatched areas are colder than 1961.

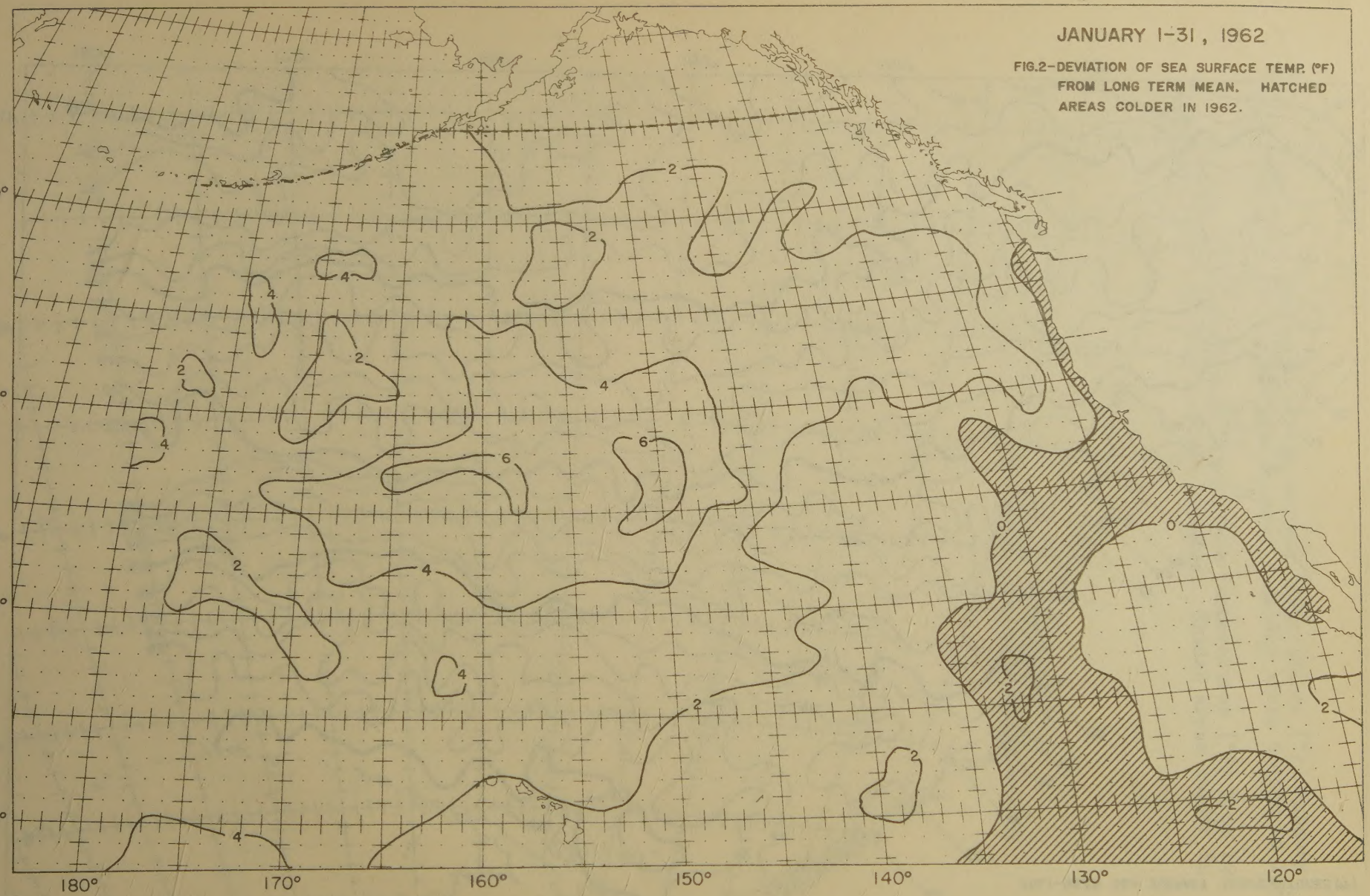
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal and light stations.

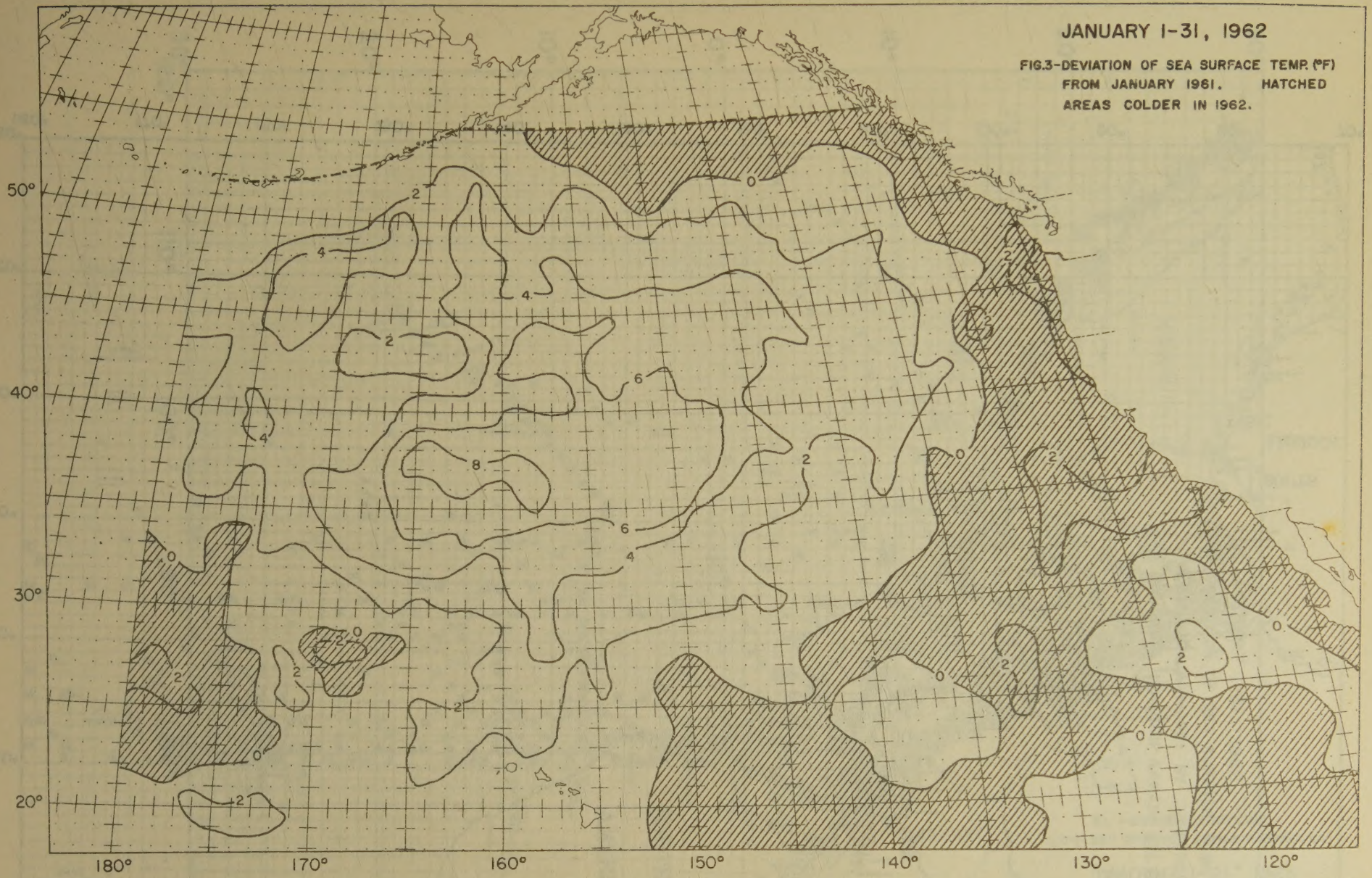
Figure 5.--Deviation of sea surface temperatures (°F) January 1962 - January 1961 by 1-degree squares. Shaded areas colder in 1962.

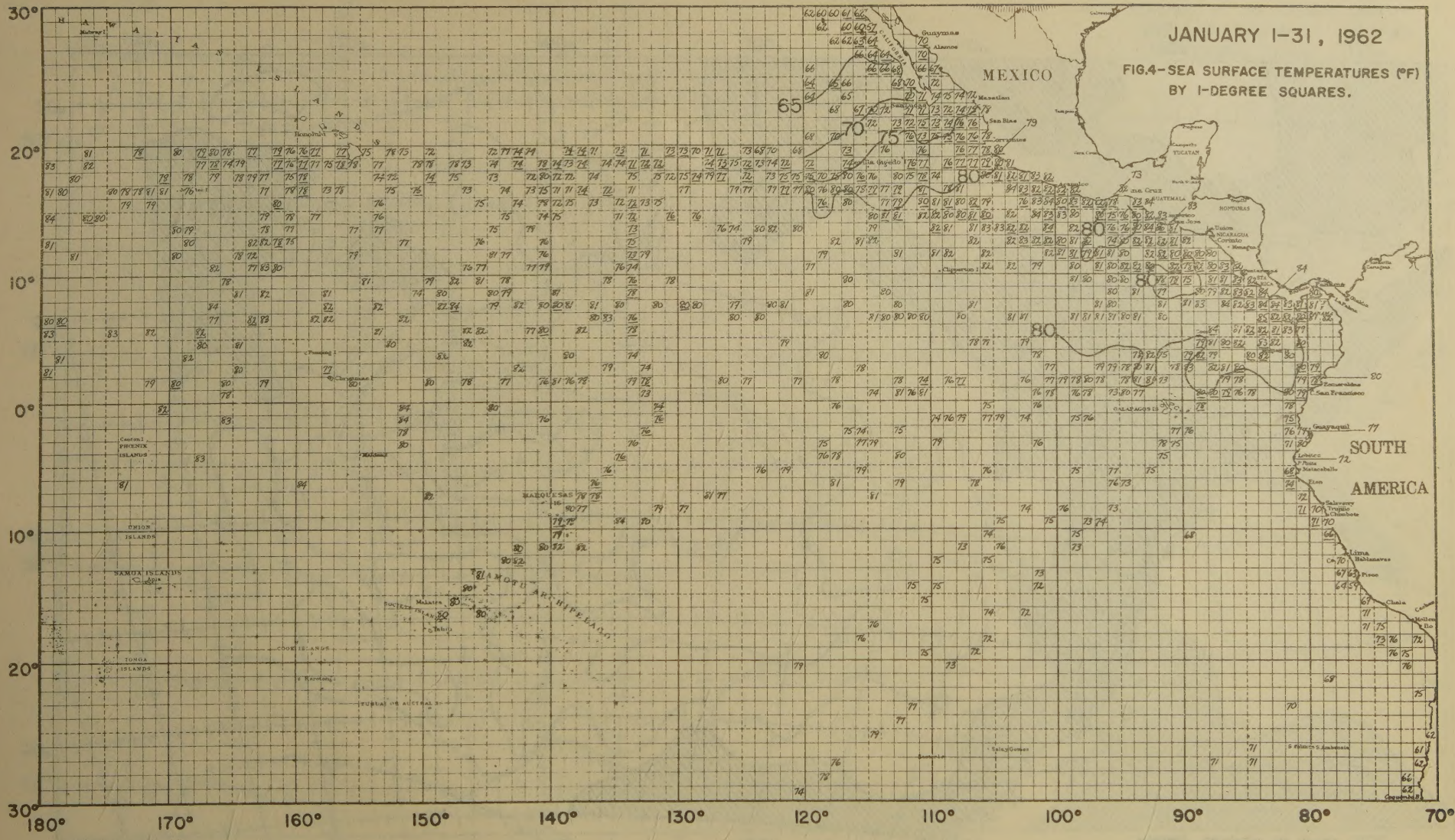
Figure 6.--Deviation of sea surface temperatures (°F) from 12 year mean (1947-1958) by 2-degree squares. Shaded areas colder in 1962.

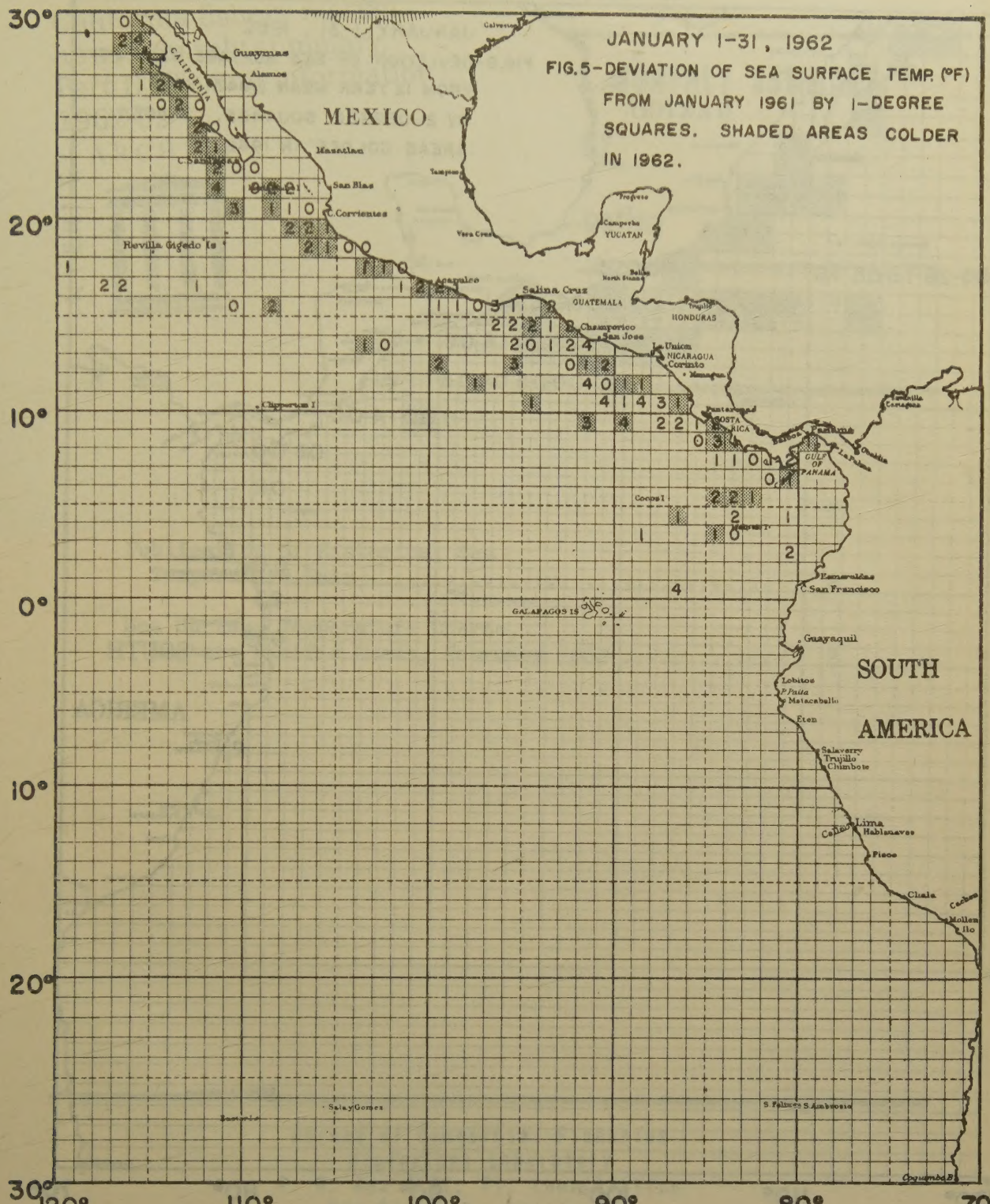
James A. Renner
Fishery Biologist (Research)

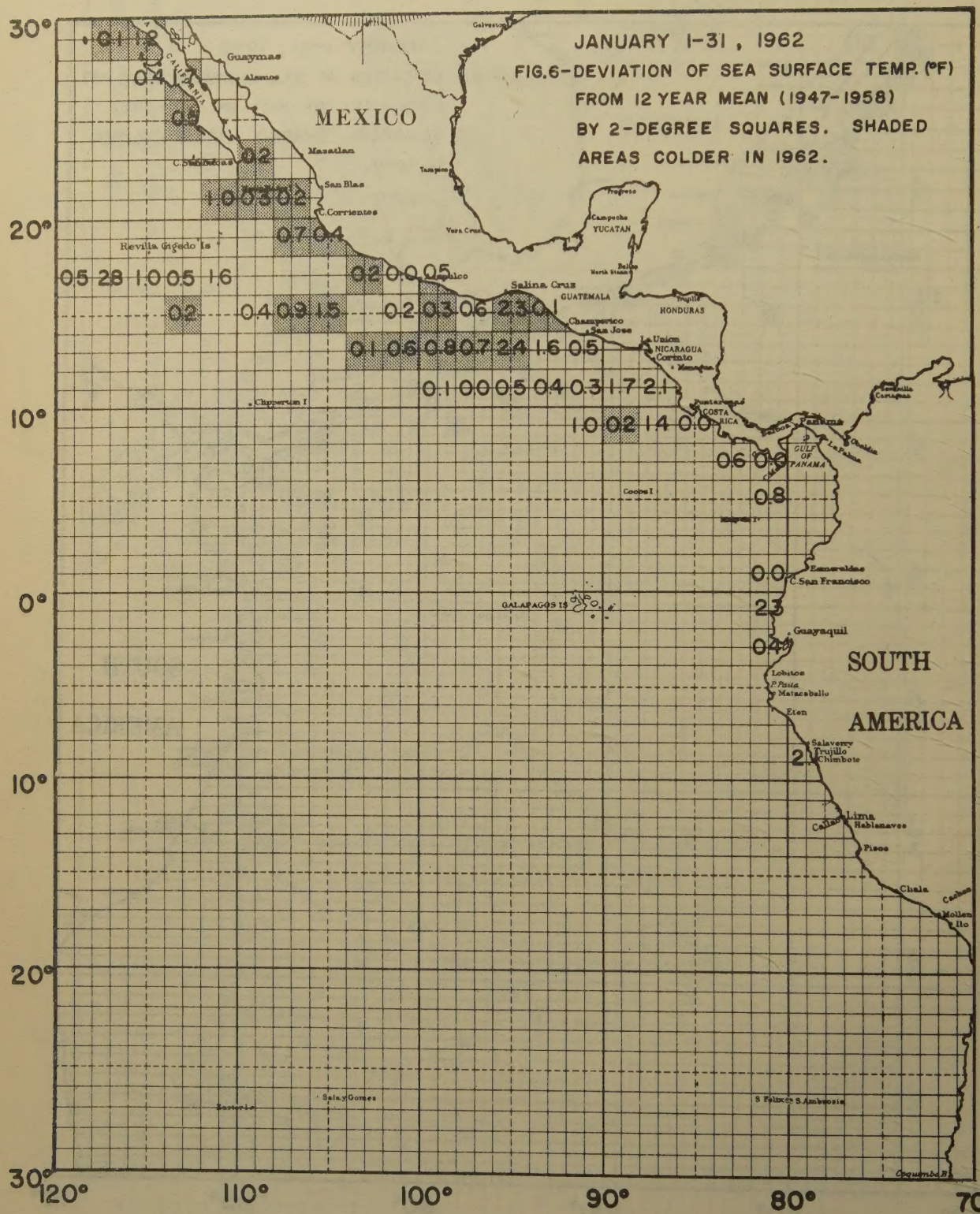

JANUARY 1-31, 1962
FIG. 1 - MEAN SEA SURFACE TEMPERATURES (°F)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


JANUARY 1-31, 1962
FIG.2-DEVIATION OF SEA SURFACE TEMP. (°F) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1962.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


JANUARY 1-31, 1962
FIG.3-DEVIATION OF SEA SURFACE TEMP. (°F) FROM JANUARY 1961. HATCHED AREAS COLDER IN 1962.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


JANUARY 1-31, 1962
FIG.4-SEA SURFACE TEMPERATURES (°F) BY 1-DEGREE SQUARES.
MEXICO
SOUTH AMERICA
HAWAIIAN ISLANDS
PHOENIX ISLANDS
UNION ISLANDS
SAMOA ISLANDS
TONGA ISLANDS
COOK ISLANDS
MARQUESAS
GALAPAGOS IS.
30°
20°
10°
0°
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°


JANUARY 1-31, 1962
FIG. 5-DEVIATION OF SEA SURFACE TEMP. (°F) FROM JANUARY 1961 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1962.
MEXICO
SOUTH AMERICA
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
GULF OF PANAMA
GALAPAGOS IS
Guaymas
Alamos
Mazatlan
San Blas
C. Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
Champerico
San Jose
Corinto
Chipperium I
Cocos I
Esmeraldas
C. San Francisco
Guayaquil
Lobitos
P. Pasta
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Pisco
Chala
Mollendo
Salas y Gomez
S. Felix
S. Ambrosio
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°


JANUARY 1-31, 1962
FIG.6-DEVIATION OF SEA SURFACE TEMP. (°F)
FROM 12 YEAR MEAN (1947-1958)
BY 2-DEGREE SQUARES. SHADED
AREAS COLDER IN 1962.
MEXICO
SOUTH
AMERICA
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
GULF OF PANAMA
GALAPAGOS IS
Guaymas
Mazatlan
San Blas
C. Corrientes
Salina Cruz
Champerico
La Union
Corinto
Guayaquil
Lobitos
Talara
Salaverry
Trujillo
Chimbote
Lima
Callao
Pisco
Chala
Mollendo
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°